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INFORMATION DISCLOSURE
STATEMENT
Examining Group 1634
Patent Application
Docket No. UTR-107X
Serial No. 10/788,432



Frank C. Eisenschenk

Frank C. Eisenschenk, Ph.D., Patent Attorney

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Unknown
Art Unit : 1634
Applicants : Aaron D. Peacock, Greg A. Davis, David C. White
Serial No. : 10/788,432
Filed : February 27, 2004
Conf. No. : 8113
For : Methods of Sampling Microbial Communities and Apparatus
Therefore

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.97 AND 1.98

Sir:

In accordance with 37 CFR §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. A copy of each cited reference is enclosed.

It is respectfully requested that the references cited on the attached form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached form PTO/SB/08 with initials or other appropriate marks.

Respectfully submitted,



Frank C. Eisenschenk, Ph.D.

Patent Attorney

Registration No. 45,332

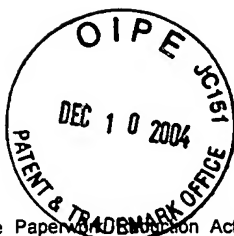
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Attachments: Form PTO/SB/08; copies of references cited therein



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/788,432
Filing Date	February 27, 2004
First Named Inventor	Aaron D. Peacock
Group Art Unit	1634
Examiner Name	Unknown
Attorney Docket Number	UTR-107X

Sheet 1 of 3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	PINKART, H. C., D. B. Ringelberg, Y. M. Piceno, S. J. Macnaughton, and D. C. White. 2002. Biochemical approaches to biomass measurements and community structure analysis. <i>In</i> Manual of Environmental Microbiology, 2 nd Edition (D. E. Stahl, C. H. Hurst, G. R. Knudsen, M. J. McInerney, L. D. Stetzenbach, and M. V. Walter, eds.) American Society for Microbiology Press, Washington, DC. pp. 101-113.	
	R2	WHITE, D. C., W. M. Davis, J. S. Nickels, J. D. King and R. J. Bobbie. 1979. Determination of the sedimentary microbial biomass by extractable lipid phosphate. <i>Oecologia</i> 40: 51-62.	
	R3	WHITE, D. C., R. J. Palmer, R. S. Burkhalter, S. J. Macnaughton, J. R. Stephen, R. G. Kern, K. J. Venkateswaran, C. A. Smith, Y-D. Gan, Y-J. Chang, S. L. Whitaker, and R. J. Moss. 1999. Utilization of signature biomarkers to define microbial communities in biofilms and as contaminants of spacecraft searching for extraterrestrial life. Second COST 520 Workshop, Biofouling and Materials, Ecole d'Ingenieurs du Valais, Sion Switzerland (J. Weber and W. Sand, Eds., EDMZ, Bern Switzerland) pp. 41-62, June 9-13.	
	R4	WHITE, D. C., J. O. Stair, and D. B. Ringelberg. 1996. Quantitative Comparisons of <i>in situ</i> Microbial Biodiversity by Signature Biomarker Analysis. <i>J. Indust. Microbiol.</i> 17: 185-196.	
	R5	WHITE, D. C., C. A. Lytle, Y-D. M. Gan, Y. M. Piceno, M. H. Wimpee, A. Peacock and C. A. Smith 2002. Flash Detection/identification of Pathogens, Bacterial Spores and Bioterrorism Agents Biomarkers from Clinical and Environmental Matrices. <i>J. Microbial Methods</i> 48: 139-147.	
	R6	STEPHEN, J. R., Y-J. Chang, Y. D. Gan, A. Peacock, S. M. Pfiffner, M. J. Barcelona, D. C. White, and S. J. Macnaughton. 1999. Microbial Characterization of JP-4 fuel contaminated-site using a combined lipid biomarker/PCR-DGGE based approach. <i>Environmental Microbiology</i> . 1: 231-241.	
	R7	IVANOVA, I A., J. R. Stephen, Y-J. Chang, J. Bruggemann, P. E. Long, J. P. McKinley, G. A. Kowalchuk, D. C. White, and S. J. Macnaughton. 2000. A survey of 16S rRNA and amoA genes related to autotrophic ammonia-oxidizing bacteria of the β -subdivision of the class proteobacteria in contaminated groundwater. <i>Canad J. Microbiol.</i> 46: 1012-1020.	
	R8	CHANG, Y-J. A. Peacock, P. E. Long, J. R. Stephen, J. P. McKinley, S. J. Macnaughton, A. K. M. Anwar Hussain, A. M. Saxton, and D. C. White. 2001. Diversity and Characterization of Sulfate-Reducing Bacteria in Groundwater at a Uranium Mill Tailings Site. <i>Appl. Environ. Microbiol.</i> 67: 3149-3160.	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/788,432
				Filing Date	February 27, 2004
				First Named Inventor	Aaron D. Peacock
				Group Art Unit	1634
				Examiner Name	Unknown
Sheet	2	of	3	Attorney Docket Number	UTR-107X

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R9	WHITE, D. C. 1995. Chemical ecology: Possible linkage between macro-and microbial ecology. <i>Oikos</i> 74: 174-181.	
	R10	LYTLE, C.A., Y-D. M. Gan, K. Salone, and D. C. White 2001. Sensitive Characterization of Microbial Ubiquinones from Biofilms by Electrospray/Mass Spectrometry <i>Environ. Microbiol.</i> 3 (4): 265-272.	
	R11	WHITE, D. C., D. B. Ringelberg, and S. J. Macnaughton. 1997. Review of PHA and signature lipid biomarker analysis for quantitative assessment of <i>in situ</i> environmental microbial ecology. In 1996 International Symposium on Bacterial Polyhydroxylalkanoates, (G. Eggink, A. Steinbuechel, Y. Poirer, and B. Witholt, eds.) NRC Research Press, Ottawa, Canada, pp. 161-170.	
	R12	KIEFT, T. L., D. B. Ringelberg, and D. C. White. 1994. Changes in ester-linked phospholipid fatty acid profiles of subsurface bacteria during starvation and desiccation in a porous medium. <i>Appl. Environ. Microbiol.</i> 60: 3292-3299.	
	R13	FINDLAY, R.H., P. C. Pollard, D. J. W. Moriarty, and D. C. White. 1985. Quantitative determination of microbial activity and community nutritional status in estuarine sediments: evidence for a disturbance artifact. <i>Canad. J. Microbiol.</i> 31: 493-498.	
	R14	TUNLID, A., B. H. Baird, M. B. Trexler, S. Olsson, R. H. Findlay, G. Odham, and D. C. White. 1985. Determination of phospholipid ester-linked fatty acids and poly beta hydroxybutyrate for the estimation of bacterial biomass and activity in the rhizosphere of the rape plant <i>Brassica napus</i> (L.). <i>Canad. J. Microbiol.</i> 31: 1113-1119.	
	R15	BOSCHKER, H. T. S., and J. J. Middelburg 2002. Stable isotopes and biomarkers in microbial ecology. <i>FEMS Microbiology Ecology</i> 40 85-95.	
	R16	WHITE, D. C., J. S. Gouffon, A. D. Peacock, R. Geyer, A. Biernacki, G. A. Davis, M. Pryor, M. B. Tabacco, and K. L. Sublette. 2003. Forensic Analysis by Comprehensive Rapid Detection of Pathogens and Contamination Concentrated in Biofilms in Drinking Water Systems for Water Resource Protection and Management, <i>Environmental Forensics</i> (accepted January 2003).	
	R17	SUBLETTE, K.L., A.E. Plato, M. Woolsey, R.G. Yates, C.E. Camp, and T. Bair. 1996. Immobilization of a Sulfide-oxidizing Bacterium in a Novel Adsorbent Biocatalyst Support", <i>Applied Biochem. Biotech.</i> , 57/58, 1013-1019.	

Examiner Signature	Date Considered
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	R18	GOUFFON, J. S., R. Geyer, A. D. Peacock, Y-D. Gan, Y-J Chang, K. Salone, C. Lytle, K. L. Sublette, and D. C. White. 2002. Rapid Quantitative Detection of Pathogens & Contamination by Analysis of Biofilms Generated on Coupons in Water Resource Management. Proceedings of the Third International Conference on Water Resources and Environmental Research (ICWRER) (edit. by G. H. Schmitz). Dresden Germany, July 22-25, Eigenvertag des Forum fur Abfallwirtschaft und Altlasten eV, Pirna D-01796 Germany, Volume II, Pp. 305-310.	
	R19	PEACOCK A. D., Y-J. Chang, J. D. Istok and D. C. White. 2003. Utilization of Microbial Biofilms as Monitors of Bioremediation. Microbial Ecology (P. Hirsch festschrift issue). July 2003.	
	R20	PEACOCK, A D., R. T. Anderson, Y-J. Chang, P. E. Long, and D. C. White. 2002. Biostimulation of Metal-Reducing Microbes at a Former Uranium Mill Tailings Site. Eos Trans. AGU, 83(47), Fall Meet. Suppl., Abstract B51B-0716 INVITED, 2002Abs AGU December meeting.	
	R 21	WHITE, D. C., M. Fayek, J. S. Gouffon, A. D. Peacock, S. M. Pfiffner, R. Geyer, and K. L. Sublette 2002. "Facile quantitative detection of microbial biofilms capable of potential <i>in situ</i> bioimmobilization of Uranium in aquifers. 2002 International Society for Subsurface Microbiology, Abstract , September 14, Copenhagen Denmark.	
	R22	FAYEK, M. J., S. Utsunomiya, S. M. Pfiffner, L. Anovitz, Y. A. Gorby, D. C. White, L. R. Riciputi, R. C. Ewing, & F. J. Stadermann. 2003. Predicting the Stability of Nano-scale Bio-precipitated Uranium Phases. Nature submitted.	
	R23	KEHRMEYER, S. R., B. M. Appelgate, H. Pinkart, D. B. Hedrick, D. C. White and G. S. Saylor. 1996. Combined lipid/DNA extraction method for environmental samples, J. Microbiological Methods 25: 153-163.	
	R24	MACGREGOR, B. J., V. Bruchert, S. Fleischer and R. Aman. 2002. Isolation of small-subunit rRNA for stable isotope characterization. Environmental Microbiology 4(8): 451-464.	
	R25	MCLUCKEY, S. A., G. R. Reid, and J. M. Wells. 2002. Ion parking during ion/ion reactions in electrodynamic traps. Ann Chem. 74: 336-346.	

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